

In the Abstract:

Please amend the abstract of the disclosure as follows:

A method to locate a fault from one end of a section of a power line utilizing measurements of current, voltage and angles between the phases at a first end of said section. Symmetrical components of currents are calculated for the current and voltage measurement at the first end. A value of impedance is calculated for an extra link between the terminals with the impedance for the positive sequence equal to:

$$(\underline{Z}_{1LB \& AB} = \frac{\underline{Z}_{1LB} \underline{Z}_{1AB}}{\underline{Z}_{1LB} + \underline{Z}_{1AB}}) \text{ where:}$$

~~$\underline{Z}_{1AB}$~~  = impedance for the positive sequence of the extra link,

~~$\underline{Z}_{1LA}$~~  = positive sequence impedance of the healthy line.

A compensation is determined for the shunt capacitance ~~with the aid of an equation of the form:~~

$$\underline{B}_2^{comp\_1} (\underline{d}_{comp\_1})^2 + \underline{B}_1^{comp\_1} \underline{d}_{comp\_1} + \underline{B}_0^{comp\_1} = 0 \text{ where:}$$

$$\underline{B}_2^{comp\_1} = A_{2\_Re}^{comp\_1} A_{00\_Im}^{comp\_1} - A_{2\_Im}^{comp\_1} A_{00\_Re}^{comp\_1}$$

$$\underline{B}_1^{comp\_1} = A_{1\_Re}^{comp\_1} A_{00\_Im}^{comp\_1} - A_{1\_Im}^{comp\_1} A_{00\_Re}^{comp\_1}$$

$$\underline{B}_0^{comp\_1} = A_{0\_Re}^{comp\_1} A_{00\_Im}^{comp\_1} - A_{0\_Im}^{comp\_1} A_{00\_Re}^{comp\_1}.$$

The zero-sequence current is determined from the healthy line of a section of parallel power lines. A distance to a fault is calculated for the parallel line section. The distance to the fault from the first end is calculated ~~using a quadratic equation of the form:~~

$$\underline{B}_2 \underline{d}^2 + \underline{B}_1 \underline{d} + \underline{B}_0 = 0 \text{ where:}$$

$$B_2 = A_{2\_Re} A_{00\_Im} - A_{2\_Im} A_{00\_Re}$$

$$B_1 = A_{1\_Re} A_{00\_Im} - A_{1\_Im} A_{00\_Re}$$

$B_0 = A_{0\_Re} A_{00\_Im} - A_{0\_Im} A_{00\_Re}$ . The fault is located utilizing the calculated distances.